

05-24-00 Dkt No. 2271/46440-B A  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ASSISTANT COMMISSIONER OF PATENTS  
Washington, D. C. 20231

S I R:

Transmitted herewith for filing are the specification and claims of the reissue application of:

Yoshitaka TAKAHASHI, Hiroshi AKIYAMA and Masami EMOTO for  
Inventor(s)

OPTICAL PICKUP APPARATUS

Also enclosed are:

- ☒ 35 sheets of ☐ informal ☒ formal drawings.
- ☒ Reissue Oath or declaration of Applicant, including Power of Attorney.
- ☐ A power of attorney.
- ☐ An assignment of the invention to \_\_\_\_\_
- ☒ Consent of Assignee to Reissue Application, and offer to surrender original patent.
- ☐ Request for Title Report.
- ☐ A Preliminary Amendment.
- ☐ A verified statement to establish small entity status under 37 C.F.R. § 1.9 and § 1.27.
- ☒ Request to Transfer Drawings.
- ☒ Statement Under 37 C.F.R. § 3.73(b).

The filing fee is calculated as follows:  
CLAIMS AS FILED, LESS ANY CLAIMS CANCELLED BY AMENDMENT

	Number Filed		Number Extra*		RATE			FEE	
					SMALL ENTITY	OTHER ENTITY		SMALL ENTITY	OTHER ENTITY
Total Claims	28-20	=	8	x	\$ 9	\$ 18	=	\$	\$ 144
Indep. Claims	5-2	=	3	x	\$ 39	\$ 78	=	\$	\$ 234
Multiple Dependent Claims Presented: Yes _____ No _____					\$120	\$240	=	\$	\$
*If the difference in col. 1 is less than zero, enter "0" in Col. 2.					BASIC FEE			\$ 345	\$ 690
					TOTAL FEE			\$	\$1,068

X Communication.

X A check in the amount of \$ 1,068 to cover the filing fee.

       Please charge Deposit Account No. 03-3125 in the amount of \$        for recordation of the Assignment.

X The Commissioner is hereby authorized to charge any additional fees which may be required in connection with the following or credit any overpayment to Deposit Account No. 03-3125.

X Filing fees under 37 C.F.R. § 1.16.

       Patent application processing fees under 37 C.F.R. §1.17.

       The issue fee set in 37 C.F.R. §1.18 at or before mailing of the Notice of Allowance, pursuant to 37 C.F.R. §1.311(b).

X Three copies of this sheet are enclosed.

       A certified copy of previously filed foreign application No.                      filed in                      on                      priority under 35 U.S.C. § 119. Applicant(s) hereby claim

X Other (identify)                     Express Mail Certificate                    

Respectfully submitted,



Ivan S. Kavrukov, Reg. No. 25,161  
Attorney for Applicants  
Cooper & Dunham LLP  
1185 Avenue of the Americas  
New York, New York 10036  
Tel.: (212) 278-0400

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Reissue Application Of: Yoshitaka Takahashi, et al.  
For: OPTICAL PICKUP APPARATUS  
Reissue Application No.:  
Reissue Application Filing Date: Concurrently herewith  
Original Patent No.: 5,870,370  
Original Patent Granted On: February 9, 1999

1185 Avenue of the Americas  
New York, New York 10036

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

**REQUEST FOR TRANSFER OF DRAWINGS**

Please transfer the original drawings from U.S. Patent No. 5,870,370 to the above-identified reissue application.

Respectfully submitted,



---

Ivan S. Kavrukov, Reg. No. 25,161  
Attorney for Applicants  
Cooper & Dunham LLP  
Tel.: (212) 278-0400

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Reissue Application Of: Yoshitaka Takahashi, et al.  
For: OPTICAL PICKUP APPARATUS  
Reissue Application No.:  
Reissue Application Filing Date: Concurrently herewith  
Original Patent No.: 5,870,370  
Original Patent Granted On: February 9, 1999

1185 Avenue of the Americas  
New York, New York 10036

Assistant Commissioner for Patents  
**Box Reissue Application**  
Washington, D.C. 20231


Sir:

**EXPRESS MAIL LETTER OF TRANSMITTAL**

Express Mail mailing label number EL628789956US

Date of Deposit May 22, 2000

I hereby certify that the above-identified reissue application (consisting of the Abstract, 39-page specification, 14 original patent claims and 14 added reissue claims, 35 sheets of formal drawings, Reissue Declaration by the Inventor, Consent of Assignee Ricoh Company, Ltd. to Reissue Application and Offer to Surrender Original Patent, Request to Transfer Drawings, Statement under 37 C.F.R. 3.73(b), a Communication, 3 copies of transmittal form, a check for the \$1,068 filing fee) are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington D.C. 20231.

  
Cooper & Dunham Employee  
Depositing Express Mail Material

Attorney for Applicant:  
Ivan S. Kavrukov, Reg. No. 25,161  
Cooper & Dunham LLP  
Tel. (212) 278-0400

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Reissue Application Of: Yoshitaka Takahashi, et al.  
For: OPTICAL PICKUP APPARATUS  
Reissue Application No.:  
Reissue Application Filing Date: Concurrently herewith  
Original Patent No.: 5,870,370  
Original Patent Granted On: February 9, 1999

1185 Avenue of the Americas  
New York, New York 10036

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

**COMMUNICATION**

Applicant respectfully submits that the new reissue claims in the application filed concurrently herewith are supported by the disclosure in the original patent and are otherwise patentable.

Claim 15 differs from patent claim 1 in the preamble -- by calling the claimed device an optical "disc" apparatus, and in the body — by omitting the characterization of the flux separating element as being formed of a birefringent material. Claim 15 is supported, for example, by the Fig. 1 embodiment showing a light source 1, an objective lens 6 that focuses light ray flux from light source 1 on an optical recording medium 7, a flux separating element 2 configured as recited in the claim, and a light receiving element 8 positioned as recited in the claim and serving the recited purpose.

The collimator lens recited in claim 16 reads, for example, on lens 105 in Figs. 12a and 14a.

The height relationship recited in claim 17 finds support, for example, in the Fig. 14a embodiment, where the heights of laser 101 and light-receiving element 113 differ. See, e.g., column 20 at lines 19-23 and column 18 at lines 13-14.

The prism in claim 18 finds support, for example, in the Fig. 12a embodiment, using a prism as the flux separating element. See, e.g., column 18 at lines 53-56.

The optical pickup recited in claim 19 finds support, for example in the pickup illustrated in Fig. 1. See column 13 at line 29.

The optical disc system referred to in claim 20 is supported, for example, by the reference to an optical disc drive and an optical system in column 1 at lines 9-11.

Claim 21 is supported, for example, by the Fig. 1 embodiment comprising a source 1, flux separating optical element 2 having a first side facing source 1 and a second side facing lens 3, a quarter-wave optical element 5, a focusing optical element 6 and a detector 8.

Claim 22 specifies that the flux separating element comprises a birefringent material, as disclosed, for example, in column 4 at line 31.

Claim 23 refers to a Wallaston prism, as disclosed, for example, in column 18 at line 53.

Claim 24 refers to a Rochon prism, as disclosed, for example, in column 11 at line 4 and Fig. 48.

Claims 25-28 find examples of support as do claims 21-24, respectively.

Of course, it should be clear that additional examples of support are present in the various preferred embodiments disclosed in detail in the patent specification, and that the added claims are not limited to those preferred examples.

Respectfully submitted,



---

Ivan S. Kavrukov, Reg. No. 25,161  
Attorney for Applicants  
Cooper & Dunham LLP  
Tel.: (212) 278-0400